

WHAT IS CLAIMED IS:

1. A disc carrier assembly for an optical disc drive, the disc carrier assembly comprising:

a disc carrier having an axial tube;

5 a clamping device including a central hole and plural clamping members for clamping an optical disc, the axial tube of the disc carrier being extended through the central hole of the clamping device; and

a positioning sleeve securely sandwiched between an inner periphery delimiting the central hole of the clamping device and the axial tube, the  
10 positioning sleeve including a flange for engaging with the clamping device to prevent the clamping device from disengaging from the disc carrier.

2. The disc carrier assembly for an optical disc drive as claimed in claim 1, wherein the positioning sleeve is made of one of metal and alloy, the positioning sleeve having an inner periphery tightly engaged with the axial tube  
15 of the disc carrier, the positioning sleeve further having an outer periphery tightly engaged with the inner periphery delimiting the central hole of the clamping device.

3. The disc carrier assembly for an optical disc drive as claimed in claim 1, wherein the central hole of the clamping device includes a stepped  
20 portion in which the flange of the positioning sleeve is engaged, thereby preventing the clamping device from disengaging from the disc carrier.

4. The disc carrier assembly for an optical disc drive as claimed in

claim 3, wherein the flange of the positioning sleeve is one of triangular, square, polygonal, and toothed, and wherein the stepped portion of the central hole of the clamping device is complimentary to the flange in shape.

5        5. The disc carrier assembly for an optical disc drive as claimed in claim 1, wherein the axial tube of the carrier includes an axial hole through which a shaft of a spindle motor extends.

6. The disc carrier assembly for an optical disc drive as claimed in claim 1, wherein the clamping device further includes plural elastic elements for biasing the clamping members to clamp the optical disc.

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